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7590 09/19/2006			EXAMINER	
Merchant & Gould P.C. P.O. Box 2903 Minneapolis, MN 55402-0903			RAMAKRISHNAIAH, MELUR	
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Willineapons, Wilv 33402-0903			2614	
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Please find below and/or attached an Office communication concerning this application or proceeding.

-\		Application No.	Applicant(s)		
Office Action Summary		.09/955,817	IYER, GOPAL N.		
		Examiner	Art Unit		
		Melur Ramakrishnaiah	2614		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Extens after S - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status	·				
2a)⊠ 3)□	Responsive to communication(s) filed on <u>12 Ju</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under <i>E</i>	action is non-final. nce except for formal matters, pro			
Dispositio	on of Claims	,			
5)	Claim(s) 1-7,9-12,15 and 16 is/are pending in that Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-7,9-12,15 and 16 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers	vn from consideration.			
10) 🗌 1	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acces Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) 🔲 Notice 3) 🔯 Inform	(s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ration Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 12-2-02,7-2-04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te		

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Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7, 9-10, 11-12, 15, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bourgart (US 2004/0038646 A1, filed 6-13-2001) in view of Grenning et al. (US PAT: 5,706,333, hereinafter Grenning) and Amado (US PAT: 5,701,400).

Regarding claim 1, Bourgart discloses a computer-implemented method of troubleshooting a problem associated with a network site, comprising the steps of: receiving a symptom input describing the symptoms of the problem, determining whether at least one of plurality of rules is invoked by the symptom input, wherein plurality of rules comprise a plurality of if-then statements (this logic is implicit as the reference teaches using an expert system to diagnose communication device faults /symptoms), wherein plurality of if-then statements comprises a plurality if portions (reads on questions) and a plurality of then portions (reads on instructions in response to questions), then portions corresponding to potential solution to the problem and if so, then outputting a potential solution to the problem wherein the potential problem solution is determined by the invoked rule (abstract; figs. 1-3, paragraphs: paragraphs: 0042-0058)

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Regarding claim 11, Bourgart discloses an expert system for trouble shooting a problem in a network site, the expert system comprising: a user interface (AF, fig. 2) for transmitting and receiving data to the expert system (SM/SFT, fig. 1), an inference engine (this is implicit in SM/SFT, fig. 1, as the reference teaches use of expert system to diagnose faults of communication devices, FIG. 1) connected to the user interface, wherein user inference engine receives data from the user interface and transmits data to the user interface, a knowledge database in (SM/SFT) connected to the inference engine, wherein the knowledge database comprises a plurality of rules (this is implicit in expert system) used to provide potential solutions to the problem, wherein plurality of rules comprises a plurality if-then statements wherein if portion (reads on questions) corresponds to the problem, then portion corresponds to a potential solution (reads on instructions in response to questions) and a domain database in (SM/SFT), wherein the domain database comprises plurality of facts regarding the communication site (abstract; figs. 1-3, paragraphs: paragraphs: 0042-0058)

Regarding claim 16, Bourgart discloses a computer-readable medium having a computer-executable instructions which, when executed on a computer, cause the computer to perform a method for troubleshooting a problem associated with the site, the method comprising: receiving a symptom input describing the symptoms determining whether at least one of plurality of rules is invoked by the symptom input, wherein plurality of rules comprise a plurality of if-then statements, wherein plurality of if-then statements comprises a plurality if portions (reads on questions) and a plurality of then portions (reads on instructions in response to questions), the then portions

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corresponding to potential solutions to the problem, if so, then outputting a potential solution to the problem wherein potential solution is determined by the invoked rule (abstract; figs. 1-3, paragraphs: paragraphs: 0042-0058).

Bourgart differs from the invention in that he does not explicitly teach the following: using his expert system for solving cellular network problems; at least a portion of the plurality of rules is generated by a software application for interviewing cellular network engineers, and at least a portion of knowledge database is populated with plurality of rules using a knowledge acquisition facility comprising software application for interviewing cellular network engineers.

However, Greening discloses method and apparatus for analyzing cellular telephone network which teaches using expert system for solving cellular network problems (col. 16, line 23 – col. 17, line 50); and Amdo discloses the following: The Auto-Intelligence Knowledge acquisition tool by Intelligence Ware Inc. which generates expert systems for heuristic decision making by interactively interviewing human expert. Generates rules which can be embedded in LISP, Prolog etc for applications in diagnosis etc (col. 16 lines 41-49).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify Bourgart's system to provide for expert system for solving cellular network problems as this arrangement would provide extending the system to solve cellular network problems as taught by Greening; at least a portion of the plurality of rules is generated by a software application for interviewing cellular network engineers, and at least a portion of knowledge database is populated with plurality of

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rules using a knowledge acquisition facility comprising software application for interviewing cellular network engineers as this arrangement would facilitate to generate rules to solve problems by using expert system by using knowledge derived from experts as taught by Amdo.

Regarding claims 2-3, 5, Bourgart further teaches the following: wherein determining whether at least one of plurality of rules is invoked by the symptom input comprises whether the symptom input matches one of the plurality of if portions (reads on questions), and if so, then determining that the rule associated with the matched if portion is invoked, where in the step of outputting a potential solution to the problem comprises outputting the then portion (reads on instruction in response to question) of the invoked rule step of receiving a facts input describing relevant facts regarding the network devices and wherein the step of determining whether at least one of plurality of rules is invoked by the symptom input further comprises determining whether at least one of the plurality of rules is invoked by the symptom input and the facts input (abstract; figs. 1-3, paragraphs: paragraphs: 0042-0058).

Regarding claim 15, Bourgart teaches the following: knowledge database is populated with a plurality of rules using a knowledge acquisition facility (KAF, not shown) wherein (KAF) comprises software application for interviewing network site engineers (reads on device experts), wherein KAF formulates plurality of if-then statements from the interviews with the network site engineers wherein the plurality of if-

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then statements are stored as the plurality of rules in the knowledge database (abstract; figs. 1-3, paragraphs: paragraphs: 0042-0058).

Regarding claim 4, Bourgart teaches the following: outputting potential solution to the problem comprises displaying the potential solution in a user interface of a computing device (paragraph: 0056).

Regarding claims 6-7, 9-10,12, Bourgart teaches the following: if the rule is not invoked, then adding the symptom input to a provisional rule list, receiving a potential solution input, and adding the symptoms input and potential solution input as one of plurality of rules stored in a knowledge database, receiving an indication input indicating whether the potential solution was successful, if the indication input indicates that the potential solution was successful, then adding the symptom input to the provisional list, receiving a potential solution input and potential solution input as one of plurality of rules stored in a knowledge database, provisional rules list comprising problem rules that have not resulted in any potential solutions (paragraph: 0058).

Response to Arguments

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melur Ramakrishnaiah whose telephone number is (571)272-8098. The examiner can normally be reached on 9 Hr schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curt Kuntz can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

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